

Fig. 1

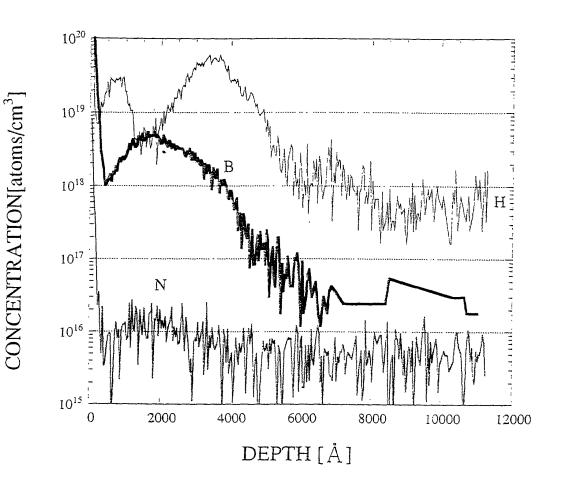


Fig. 2

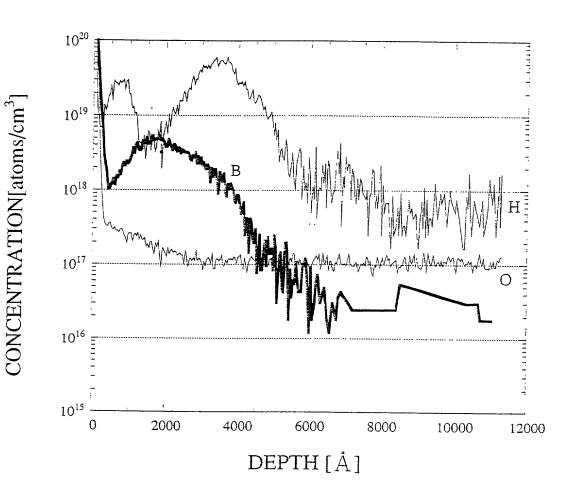
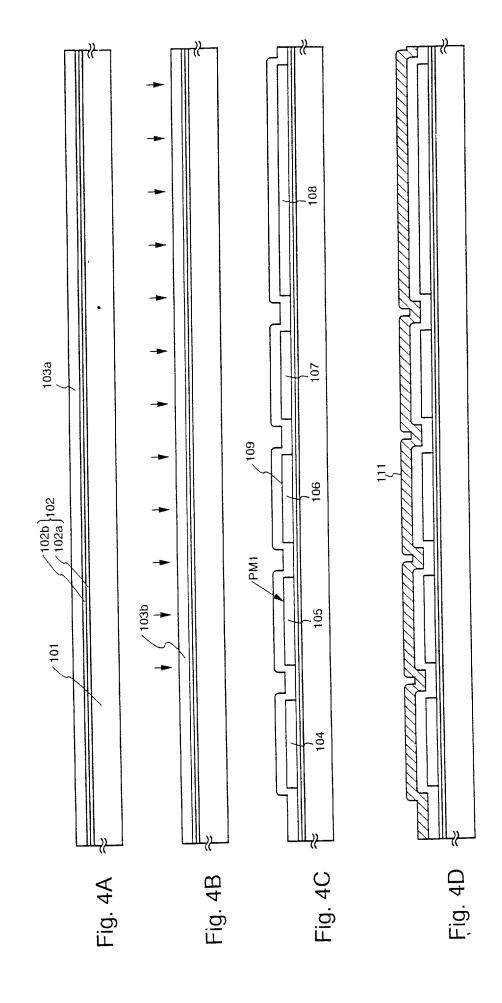
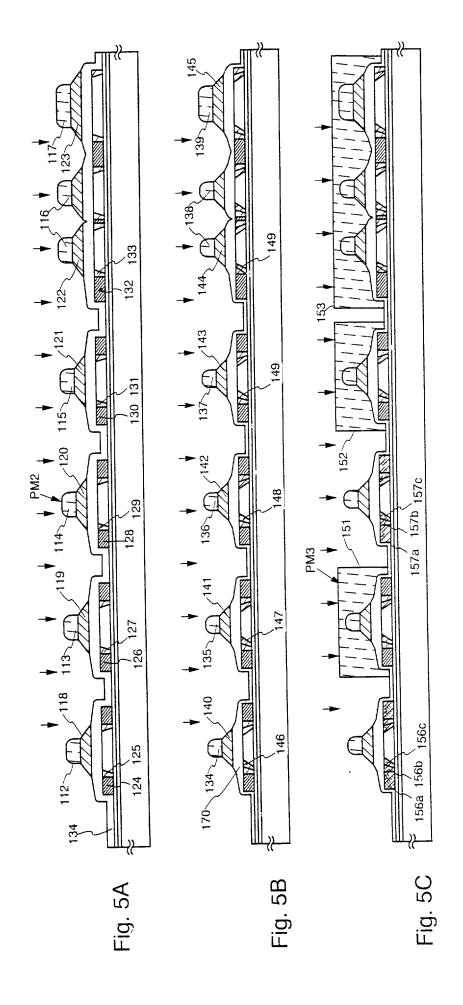
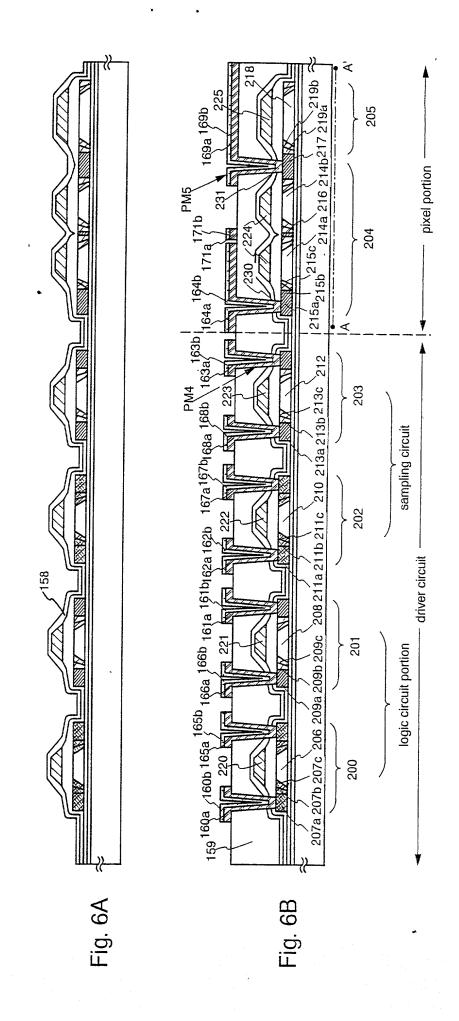
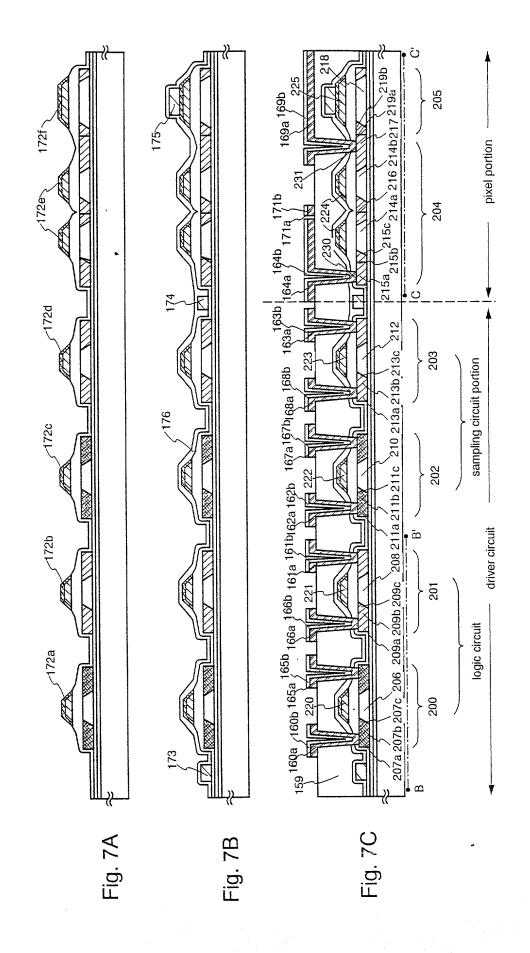


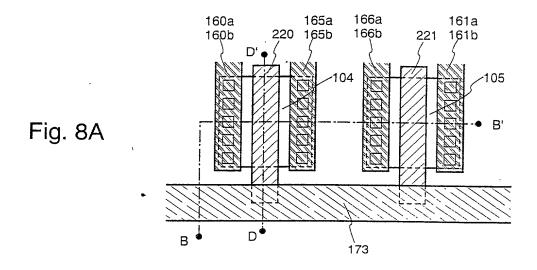
Fig. 3

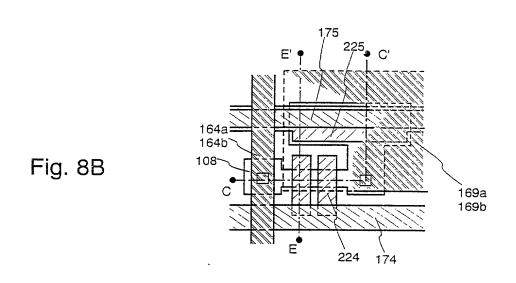


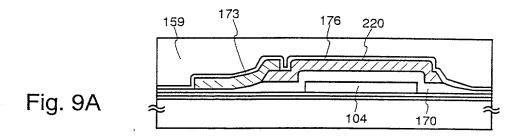


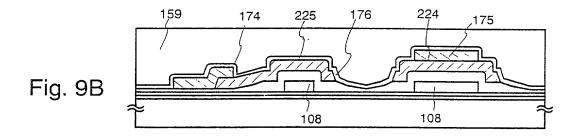


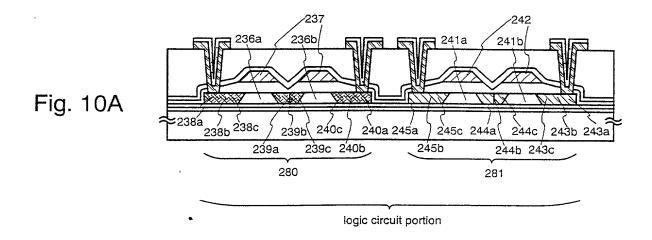


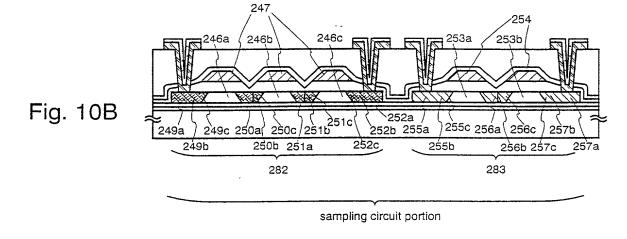


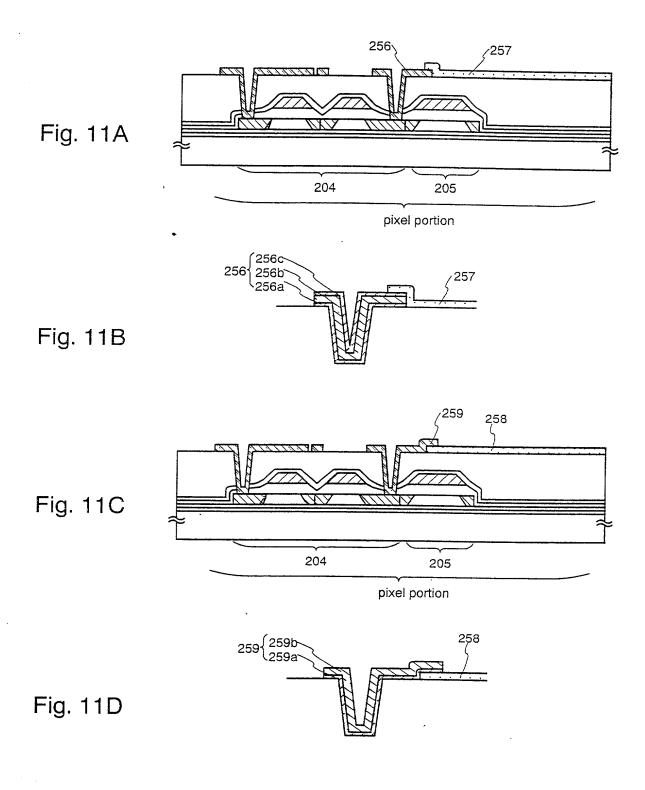












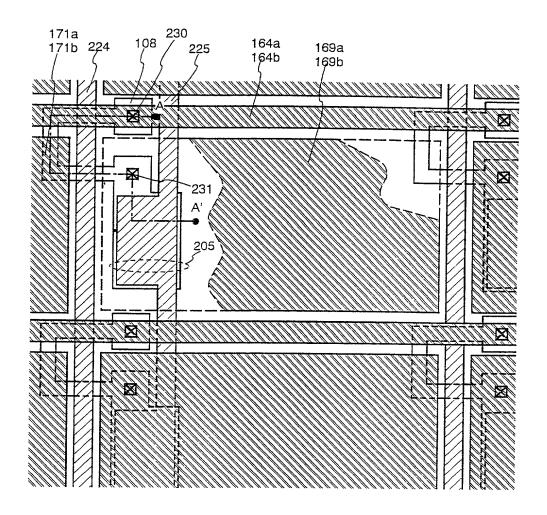
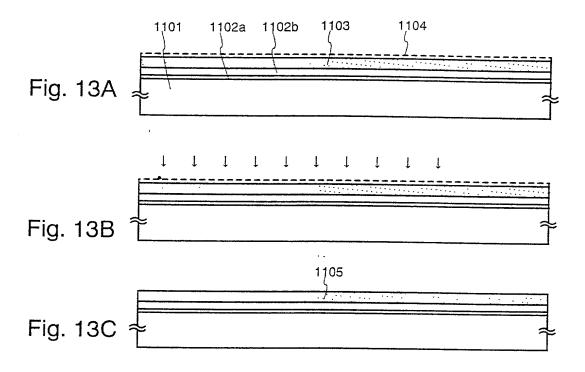


Fig. 12



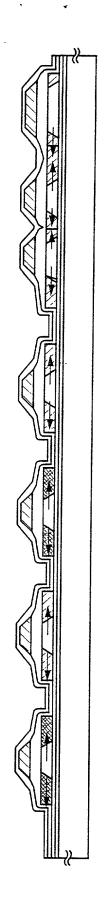


Fig. 14

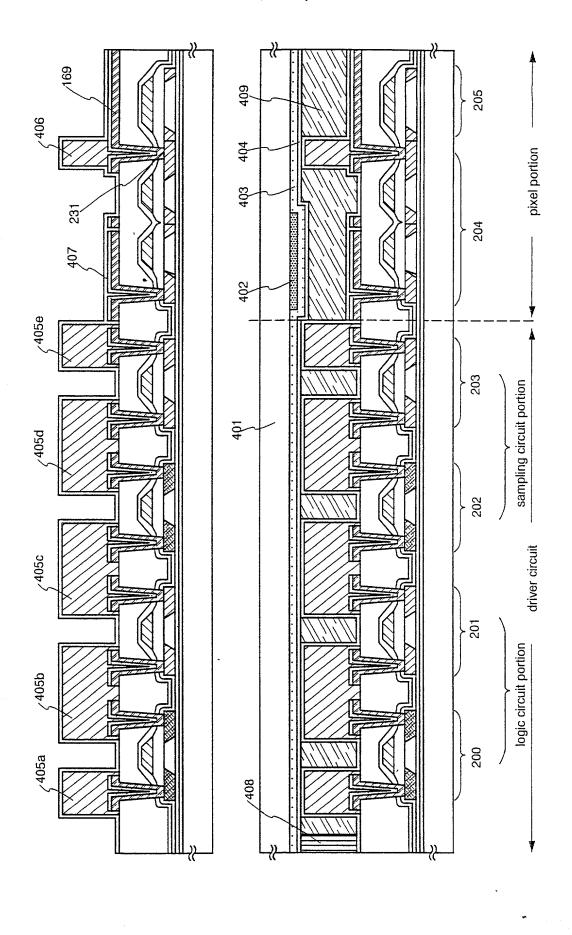


Fig. 15

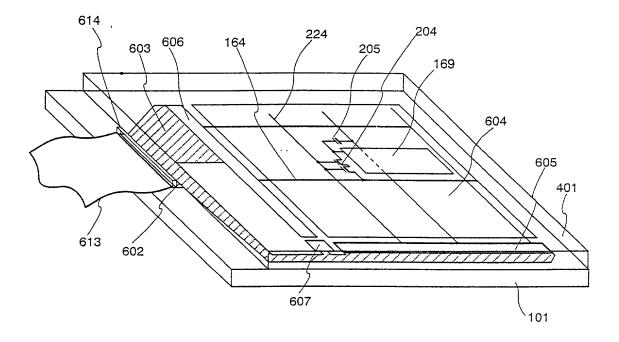
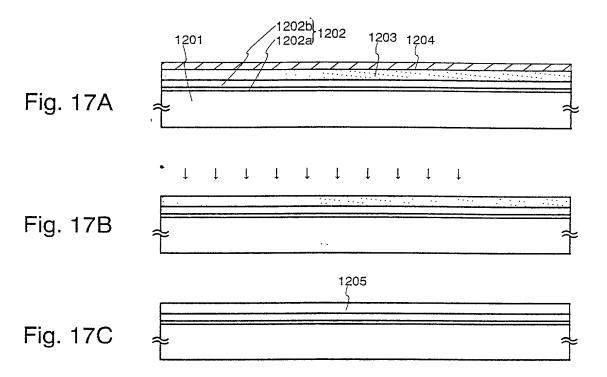


Fig. 16



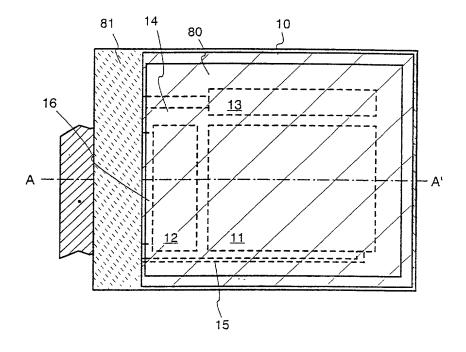


Fig. 18A

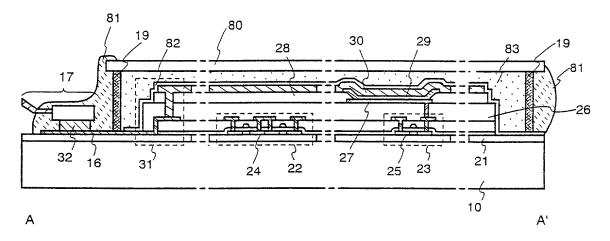
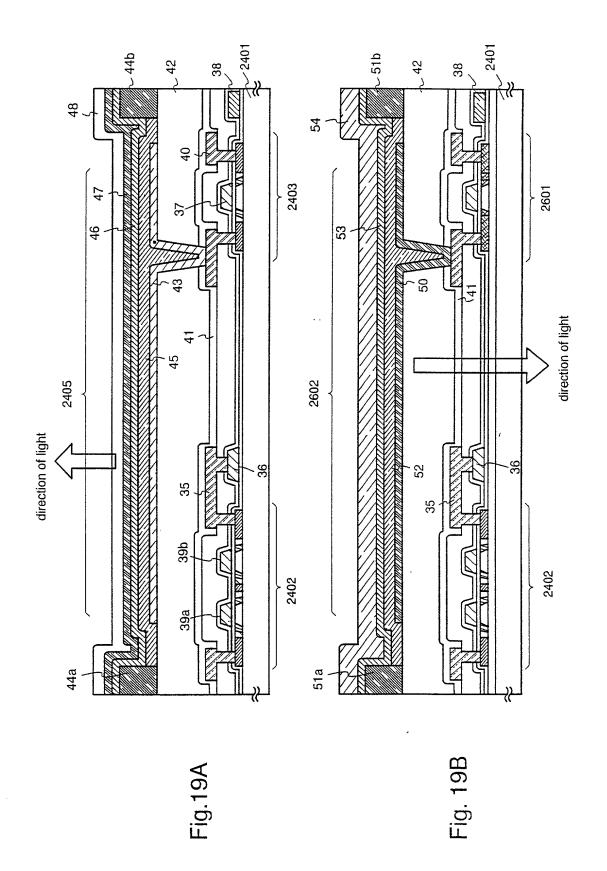
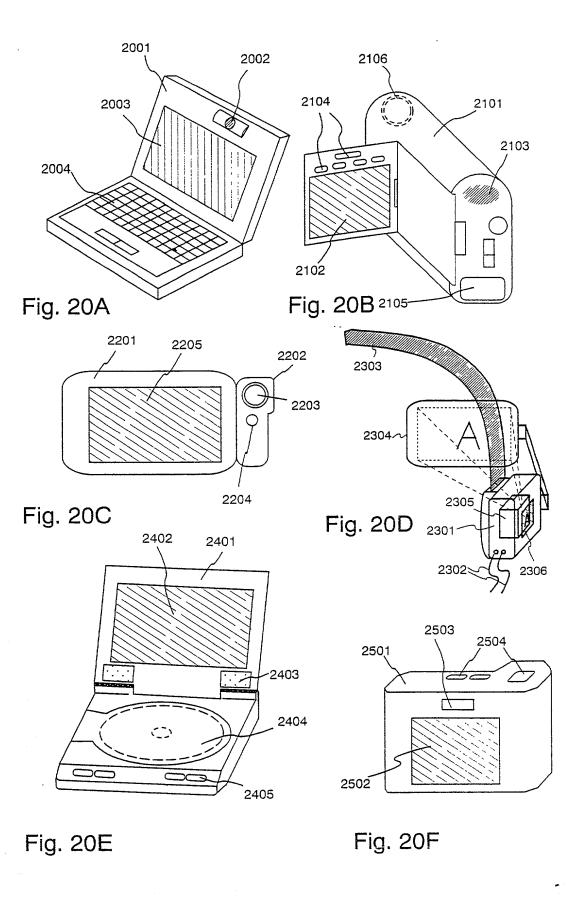


Fig. 18B





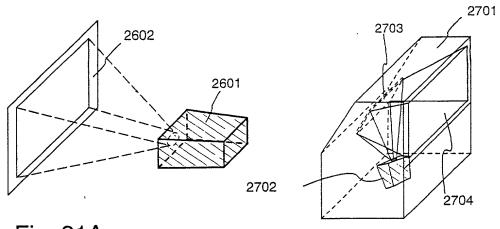


Fig. 21A

Fig. 21B

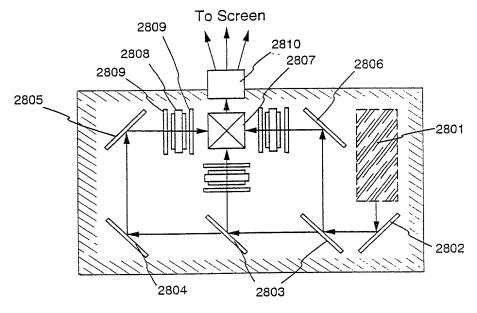


Fig. 21C

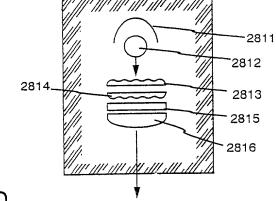
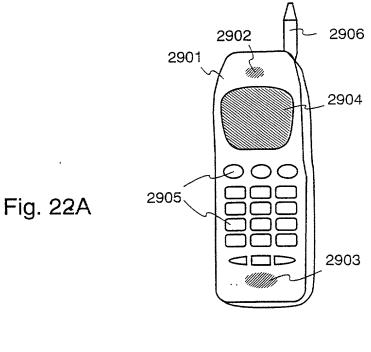
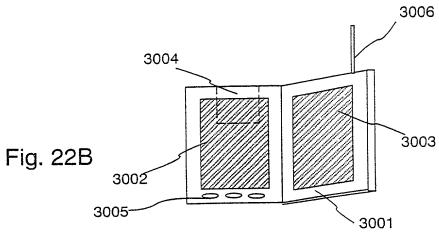
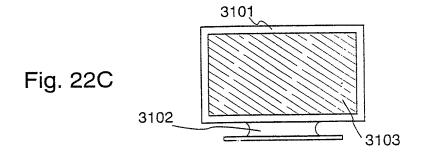


Fig. 21D







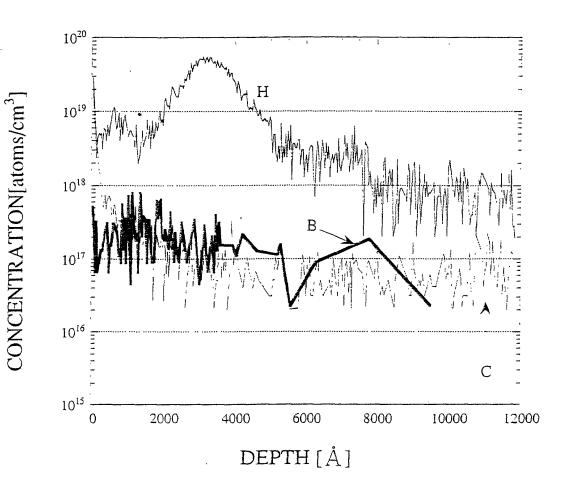


Fig. 23

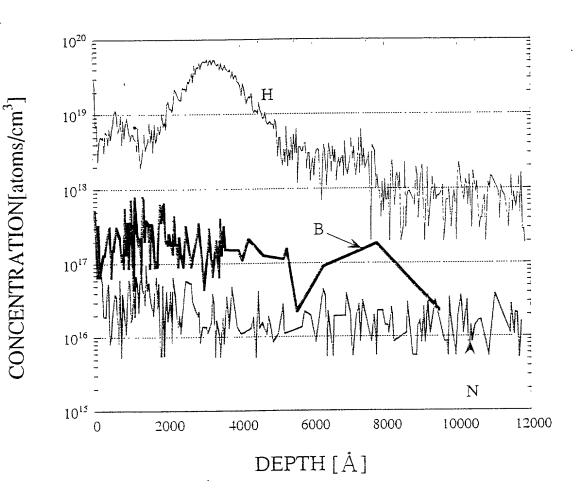


Fig. 24

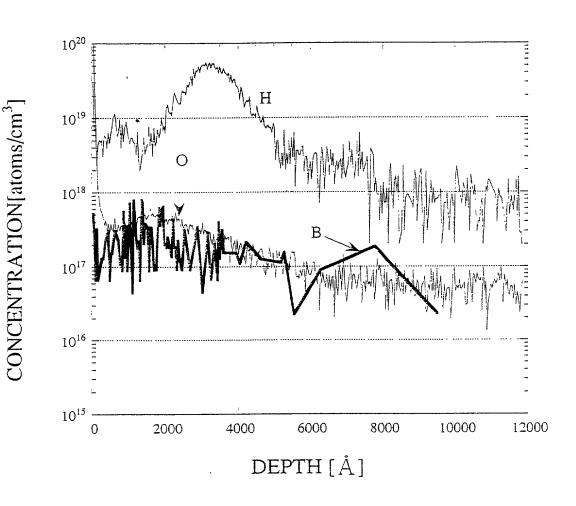


Fig. 25

CONCENTRATION[atoms/cm³]

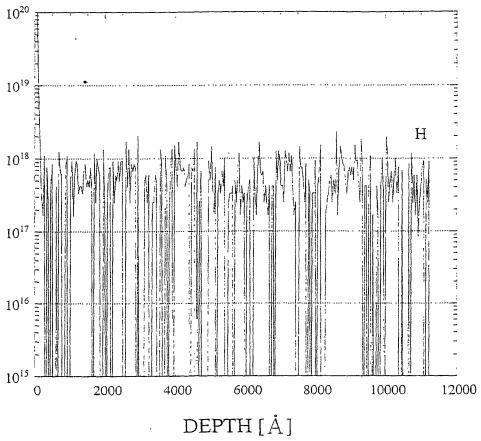


Fig. 26

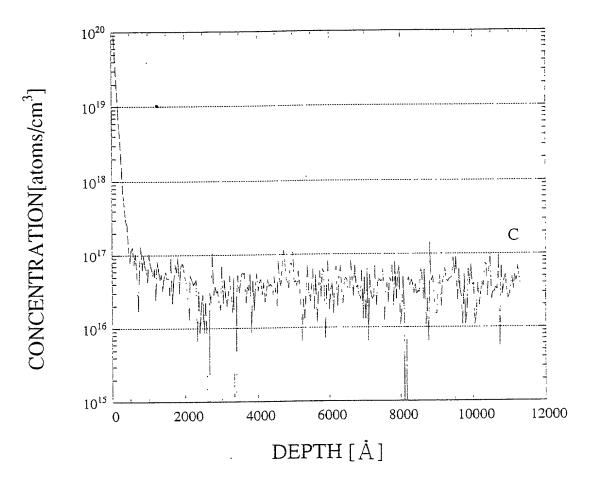


Fig. 27

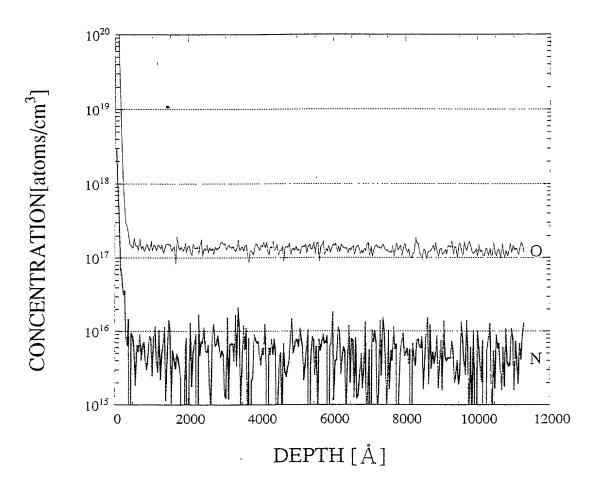
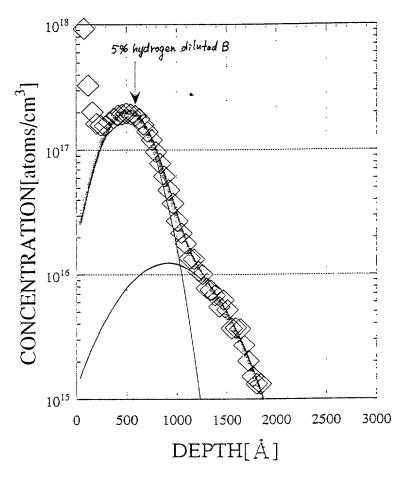


Fig. 28



5% B fitting	
	value
dosage 1	1.1224e+12
dosage 2.	1.3183e÷11
standard deviation 1	227.08
Standard deviation 2	422.75
projected range1	494.37
projected range 2	908.19
χ^2	0.52998
R	l

Gaussian function fitting projected range of B at 30kV (Å) LSS calculation (into 5: on 5:02)

B+: ~1000 Å

B2+: ~500 Å

Fig. 29

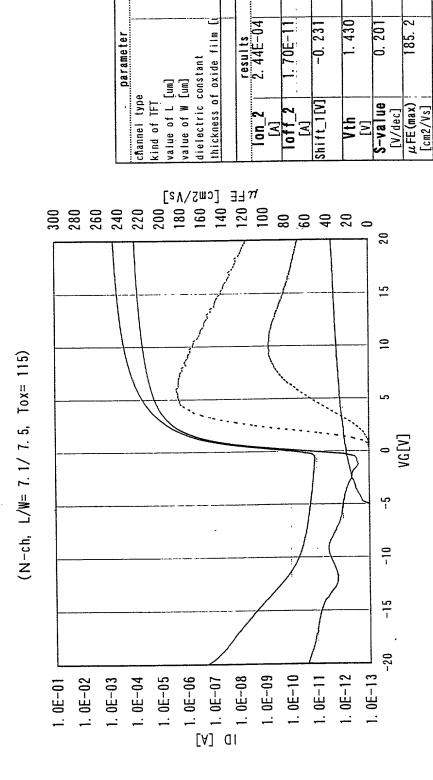


Fig. 30

results 2.65E-04 thickness of oxide film [nm 1. 43E-11 parameters dielectric constant value of L [um] value of W [um] channel type [v] S-value kind of TFT Shift_1[V] μFE(max) [cm2/Vs] [A] 10 f f _ 2 [V/dec] 0n 2 260 240 220 200 180 180 170 170 100 80 60 40 20 0 20 15 9 (N-ch, L/W=7.1/7.5, Tox=115)0 VG[V] -10 -15 -20 1. 0E-12 1. 0E-13 1. 0E-01 1. 0E-03 1. 0E-04 1. 0E-05 1. 0E-06 1. 0E-08 1. 0E-09 1. 0E-10 1. 0E-11 1. 0E-02

-1.086

1.361

0.308

Fig. 31